

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003385

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H04B 7/02**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04L 1/00 06, H04M 13/29

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
search terms : space time code, trellis modulation, transmission diversity, multiple antennas

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/092206 A1 96 A2 19 Aug. 2004 (Linkair Communications Inc.) see summary of the invention	1
Y	WO 03/088503 A1 23 Oct. 2003 (Linkair Communications Inc.) see summary of the invention	1
A	US 6542556 B1 1 Apr. 2003 (Nokia Mobile Phones LTD.) claims 1, 13	1
A	WO 02/043313 A3 30 May 2002 (Nortel Networks Lim.) claims 1, 6	1

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

31 MARCH 2005 (31.03.2005)

Date of mailing of the international search report

31 MARCH 2005 (31.03.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003385

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03/092206 A1	06 Nov. 2003	AU 2002257490 AA	10 Nov. 2003
WO 03/088503 A1	23 Oct. 2003	AU 2002252946 AA	27 Oct. 2003
US 6542556 B1	1 Apr. 2003	EP 273122 A2 JP 2003-530007 T2 WO 01/076094 A2	8 Jan. 2003 7 Oct. 2003 11 Oct. 2001
WO 02/043313 A3	30 May 2002	EP 1340335 A2 JP 2004-515119 A	3 Sep. 2003 20 May 2004